

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims 4, 6, 7, 11, 13, 14, 18, 20, and 21 in accordance with the following:

1. (ORIGINAL) A name/address translation device comprising:

a judging unit for judging, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination, whether a communication between the communication source and a communication destination is permitted or not, on the basis of network types to which the communication source and the communication destination respectively belong;

a second judging unit for judging based on a result of the judgment by the judging unit whether or not a communication destination address corresponding to the name is given as a response to the communication source; and

a response unit for acquiring, when the second judging unit judges that the address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source.

2. (ORIGINAL) A name/address translation device comprising:

a receiving unit for receiving a query about a communication destination address corresponding to a communication destination name, the query being transmitted from a first network and a second network;

an identifying unit for identifying networks to which a communication source having transmitted the query and the communication destination respectively belong;

a searching unit for searching for an address of the communication destination to be given to the communication source as a response when the communication source belongs to the first network and when the communication destination belongs to the second network; and

a sending unit for sending the response containing the address of the communication destination,

wherein the sending unit, when the communication source belongs to the second network and when the communication destination belongs to the first network, does not send the response containing the address of the communication destination.

3. (ORIGINAL) A name/address translation device according to Claim 2, wherein the sending unit, when there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination belonging to the second network, does not give the response of the communication destination address to the communication source.

4. (CURRENTLY AMENDED) A name/address translation device according to Claim 2 or 3, further comprising notifying unit for notifying a routing device of passage information for letting data pass through that are forwarded between a first terminal and a second terminal, the routing device receiving, when a response of an address of the second terminal corresponding to the communication destination belonging to the second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting an address translation between the first network and the second network.

5. (ORIGINAL) A name/address translation device according to Claim 4, wherein the notifying unit, when the routing device lets the data transmitted from the second terminal pass through, notifies the routing device of passage information containing an address of the first network that is virtually assigned to the second terminal and an on-the-second-network address of the second terminal in order to translate the on-the-second-network address of the second terminal that is added as a source address to this piece of data into an on-the-first network address, and

the sending unit, when the first terminal adds the on-the-first-network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, sends a response containing the one-the-first-network address of the second terminal in order to translate the destination address added to this piece of data into the on-the-second-network address of the second terminal.

6. (CURRENTLY AMENDED) A name/address translation device according to Claim 4 or 5, wherein the notifying unit notifies the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

7. (CURRENTLY AMENDED) A name/address translation device according to any one of Claims 4-6, wherein the notifying unit notifies, before the sending unit sends the address of the second terminal, the routing device of the passage information.

8. (ORIGINAL) A name/address translation method making a computer functioning as a name/address translation device, execute:

a judging step of judging, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination, whether a communication between a communication source and a communication destination is permitted or not, on the basis of network types to which the communication source and the communication destination respectively belong;

a second judging step of judging based on a result of the judgment in the judging step whether or not a communication destination address corresponding to the name is given as a response to the communication source; and

a response step of acquiring, when it is judged in the second judging step that the address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source.

9. (ORIGINAL) A name/address translation method making a computer functioning as a name/translation device, execute:

a receiving step of receiving a query about a communication destination address corresponding to a communication destination name, the query being transmitted from a first network and a second network;

an identifying step of identifying networks to which a communication source having transmitted the query and the communication destination respectively belong;

a searching step of searching for an address of the communication destination to be given to the communication source as a response when the communication source belongs to the first network and when the communication destination belongs to the second network; and

a sending step of sending the response containing the address of the communication destination,

wherein when the communication source belongs to the second network and when the communication destination belongs to the first network, the response containing the address of the communication destination is not sent.

10. (ORIGINAL) A name/address translation method according to Claim 9, wherein the computer, when there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination belonging to the second network, does not give the response of the communication destination address to the communication source.

11. (CURRENTLY AMENDED) A name/address translation method according to Claim 9-~~or~~10, wherein the computer further executes a notifying step of notifying a routing device of passage information for letting data pass through that are forwarded between a first terminal and a second terminal, the routing device receiving, when a response of an address of the second terminal corresponding to the communication destination belonging to the second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting an address translation between the first network and the second network.

12. (ORIGINAL) A name/address translation method according to Claim 11, wherein the computer, when the routing device lets the data transmitted from the second terminal pass through, notifies the routing device of passage information containing an address of the first network that is virtually assigned to the second terminal and an on-the-second-network address of the second terminal in order to translate the on-the-second-network address of the second terminal that is added as a source address to this piece of data into an on-the-first network address, and

the computer, when the first terminal adds the on-the-first-network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, sends a response containing the one-the-first-network address of the second terminal in order to translate the destination address added to this piece of data into the on-the-second-network address of the second terminal.

13. (CURRENTLY AMENDED) A name/address translation method according to Claim 11-~~or~~12, wherein the computer notifies the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

14. (CURRENTLY AMENDED) A name/address translation method according to any one of Claims 11-13, wherein the computer notifies, before sending the address of the second terminal, the routing device of the passage information.

15. (ORIGINAL) A program making a computer function as a name/address translation device or a recording medium recorded with this program, making the computer execute:

a judging step of judging, when receiving a query, transmitted from a communication source, about an address corresponding to a name of a communication destination, whether a communication between a communication source and a communication destination is permitted or not, on the basis of network types to which the communication source and the communication destination respectively belong;

a second judging step of judging based on a result of the judgment in the judging step whether or not a communication destination address corresponding to the name is given as a response to the communication source; and

a response step of acquiring, when it is judged in the second judging step that the address of the communication destination is given as the response, the address of the communication destination and giving the address of the communication destination as the response to the communication source.

16. (ORIGINAL) A program making a computer function as a name/address translation device or a recording medium recorded with this program, making the computer execute:

a receiving step of receiving a query about a communication destination address corresponding to a communication destination name, the query being transmitted from a first network and a second network;

an identifying step of identifying networks to which a communication source having transmitted the query and the communication destination respectively belong;

a searching step of searching for an address of the communication destination to be given to the communication source as a response when the communication source belongs to the first network and when the communication destination belongs to the second network; and

a sending step of sending the response containing the address of the communication destination,

wherein when the communication source belongs to the second network and when the communication destination belongs to the first network, a step of not sending the response containing the address of the communication destination is executed.

17. (ORIGINAL) A program or a recording medium recorded with this program according to Claim 16, wherein the computer, when there is no application of which a use is permitted in a communication between the communication source belonging to the first network and the communication destination belonging to the second network, executes a step of judging that the response of the communication destination address is not given to the communication source.

18. (CURRENTLY AMENDED) A program or a recording medium recorded with this program according to Claim 16 ~~or 17~~, wherein the computer further executes a notifying step of notifying a routing device of passage information for letting data pass through that are forwarded between a first terminal and a second terminal, the routing device receiving, when a response of an address of the second terminal corresponding to the communication destination belonging to the second network is given to the first terminal corresponding to the communication source belonging to the first network, pieces of data forwarded between the first network and the second network and letting only the data with its passage permitted pass through, and effecting an address translation between the first network and the second network.

19. (ORIGINAL) A program or a recording medium recorded with this program according to Claim 18, wherein the computer, when the routing device lets the data transmitted from the second terminal pass through, executes:

a step of notifying the routing device of passage information containing an address of the first network that is virtually assigned to the second terminal and an on-the-second-network address of the second terminal in order to translate the on-the-second-network address of the second terminal that is added as a source address to this piece of data into an on-the-first network address, and

a step of, when the first terminal adds the on-the-first-network address of the second terminal to the data addressed to the second terminal and thus transmits it and when the routing device lets the data addressed to the second terminal pass through, sending a response containing the one-the-first-network address of the second terminal in order to translate the destination address added to this piece of data into the on-the-second-network address of the second terminal.

20. (ORIGINAL) A program or a recording medium recorded with this program according to Claim 18-~~or 19~~, wherein the computer executes a step of notifying the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

21. (CURRENTLY AMENDED) A program or a recording medium recorded with this program according to any one of Claims 18-20, wherein the computer executes a step of notifying, before sending the address of the second terminal in the sending step, the routing device of the passage information.